**Page 1**

1. Why is it beneficial for a hatchling to emerge from its nest at night?
2. What are some of the predators that a hatchling might face before gaining access to the ocean waters?
3. List several environmental cues you think hatchlings can recognize.

**Page 2**

1. How does the hatchling respond to the dark silhouette?

2. How does the hatchling respond to the beach slope?

1. How does the hatchling respond to the bright regions?
2. Write a general statement that summarizes the responses of a hatchling to environmental cues when moving from its nest to the ocean.

**Page 3**

1. Consider the scatter of points on each scatterplot. Describe the scatter of points as random or oriented for each of the three scatterplots.
2. If the scatter of points is oriented, identify the region from each circular graph by listing the bordering angles in which all of the points fall.
3. Did the hatchling in the level orientation arena (A) exhibit [random](javascript:window.parent.popUp('mod03defs.htm%23random')) or [oriented](javascript:window.parent.popUp('mod03defs.htm%23oriented')) behavior? Why is this finding important in this experimental design?
4. Did the hatchlings in the sloped orientation arenas (B & C) exhibit [random](javascript:window.parent.popUp('mod03defs.htm%23random')) or [oriented](javascript:window.parent.popUp('mod03defs.htm%23oriented')) behavior?
5. Write a general statement concerning the importance of beach slope as an environmental cue for sea turtle hatchlings when orienting from nest to ocean.

**Page 4**

1. Consider the scatter of points on each scatterplot. Describe the scatter of points as random or oriented for each of the three scatterplots.
2. If oriented, identify the region from each circular graph by listing the bordering angles in which all of the points fall.
3. Did hatchling D in the level orientation arena exhibit random or oriented behavior? Did it move toward the dimmer light or the brighter light? Why is this finding important in this experimental design?
4. Did hatchling E in the orientation arena sloped toward the dimmer light exhibit random or oriented behavior? Did it move toward the dimmer light or the brighter light? Why is this finding important in this experimental design?
5. Did hatchling F in the orientation arena sloped toward the brighter light exhibit random or oriented behavior? Did it move toward the dimmer light or the brighter light? Why is this finding important in this experimental design?
6. Write a general statement concerning the relative importance of beach slope, darker silhouettes and lighter silhouettes as environmental cues for sea turtle hatchlings when they orient from nest to ocean based on the data that has been gathered throughout this module.

**Page 5**

1. What cues are available to this hatchling (real and man-made)?
2. In what direction did the hatchling crawl? Explain why.
3. In this situation, are the chances greater or less that this hatchling will make it into the ocean to survive? Explain your reasoning.